

WHAT IS CLAIMED IS:

1. A housing for a heat-dissipating device, comprising:

an outer frame having a passage for guiding air streams from one opening toward another opening, wherein an inner wall of the passage of one of the openings radially
5 outwardly extends so as to increase an intake/discharge area for the air streams.

2. A housing for a heat-dissipating device, comprising:

an outer frame having an air inlet, an air outlet, and a passage for guiding air streams from the air inlet to the air outlet, wherein an inner wall of the passage at the air inlet radially outwardly extends so as to increase an intake area of the air streams.

10 3. The housing according to claim 2, wherein the inner wall of the passage at the air inlet radially outwardly extends with respect to a central axis of the passage in a symmetrical manner.

4. The housing according to claim 2, wherein the inner wall of the passage at the air inlet radially outwardly extends with respect to a longitudinal axis of the passage and beyond a
15 peripheral edge of the outer frame.

5. The housing according to claim 2, wherein the inner wall of the passage at the air inlet radially outwardly extends with respect to a longitudinal axis of the passage in a frustum-conical or a frustum-elliptically conical manner.

6. The housing according to claim 2, wherein the inner wall of the passage at the air inlet or
20 outlet is formed with an inclined portion or a beveled edge therearound.

7. The housing according to claim 2, wherein the inner wall of the passage at the air outlet radially outwardly extends with respect to a central axis of the passage in a symmetrical

manner.

8. The housing according to claim 2, wherein the inner wall of the passage at the air outlet radially outwardly extends with respect to a longitudinal axis of the passage and beyond a peripheral edge of the outer frame.

5 9. The housing according to claim 2, wherein the inner wall of the passage is provided with an inclined portion extending from the air inlet to the air outlet.

10. The housing according to claim 2, wherein an radially outward extension of the inner wall of the passage at the air inlet is partially cut off to form a notch in order to increase an intake area for the air streams coming from a lateral side thereof.

10 11. A heat-dissipating device, comprising:

an impeller having a plurality of blades; and

a housing for receiving the impeller, wherein the housing includes a passage for guiding air streams from one opening toward another opening, and an inner wall of the passage at at least one of the openings radially outwardly extends so as to increase an intake/discharge area
15 for the air streams.

12. A heat-dissipating device, comprising:

an impeller; and

a housing for receiving the impeller, wherein the housing includes an air inlet, an air outlet, and a passage for guiding air streams from the air inlet to the air outlet, wherein an
20 inner wall of the passage at the air inlet radially outwardly extends so as to increase an intake area of the air streams.

13. The heat-dissipating device according to claim 12, wherein the inner wall of the passage at the air inlet radially outwardly extends with respect to a central axis of the passage in a symmetrical manner.

14. The heat-dissipating device according to claim 12, wherein the inner wall of the passage
5 at the air inlet radially outwardly extends with respect to a longitudinal axis of the passage and beyond a peripheral edge of an outer frame of the housing.

15. The heat-dissipating device according to claim 12, wherein the inner wall of the passage at the air inlet or outlet is formed with an inclined portion or a beveled edge therearound.

16. The heat-dissipating device according to claim 12, wherein the inner wall of the passage
10 at the air outlet radially outwardly extends with respect to a central axis of the passage in a symmetrical manner.

17. The heat-dissipating device according to claim 12, wherein the inner wall of the passage at the air outlet radially outwardly extends with respect to a longitudinal axis of the passage and beyond a peripheral edge of an outer frame.

18. The heat-dissipating device according to claim 12, wherein the inner wall of the passage
15 at the air outlet radially outwardly extends with respect to a longitudinal axis of the passage in a frustum-conical or a frustum-elliptically conical manner.

19. The heat-dissipating device according to claim 12, wherein the inner wall of the passage is formed with an inclined portion extending from the air inlet to the air outlet.

20. The heat-dissipating device according to claim 12, wherein an radially outward extension
20 of the inner wall of the passage at the air inlet is partially cut off to form a notch in order to increase an intake area for the air streams coming from a lateral side thereof.

21. The heat-dissipating device according to claim 12, wherein a dimension of a blade of the impeller increases along with the radially outwardly extending direction of the inner wall of the passage.

22. A heat-dissipating system, comprising:

5 a casing;

at least one electrical element mounted within the casing; and

a heat-dissipating device mounted on the casing for dissipating heat generated from the at least one electrical element when it operates,

wherein the heat-dissipating device includes an impeller and a housing for receiving the
10 impeller, and the housing includes a passage for guiding air streams from one opening of the housing to another opening of the housing, and an inner wall of the passage at one of the openings radially outwardly extends with respect to an axis of the heat-dissipating device so as to increase an intake/discharge area for the air streams.

23. The heat-dissipating system according to claim 22, wherein the heat-dissipating device
15 further comprises a heat sink assembled with the housing.

24. The heat-dissipating system according to claim 22, wherein the inner wall of the passage radially outwardly extends with respect to the axis of the heat-dissipating device in a symmetrical manner.

25. The heat-dissipating system according to claim 22, wherein the inner wall of the passage
20 radially outwardly extends with respect to the axis of the heat-dissipating device and beyond a peripheral edge of the housing.

26. The heat-dissipating system according to claim 22, wherein the inner wall of the passage

is provided with an inclined portion or a beveled edge formed therearound.

27. A heat-dissipating system, comprising:

a casing;

at least one electrical element mounted within the casing; and

5 a heat-dissipating device mounted on the casing for dissipating heat generated from the at least one electrical element when it operates,

wherein the heat-dissipating device further comprises:

an impeller having a plurality of blades; and

a housing for receiving the impeller, wherein the housing includes an air inlet, an air
10 outlet, and a passage for guiding air streams from the air inlet to the air outlet, and the inner wall of the passage at the air inlet radially outwardly extends with respect to an axis of the heat-dissipating device so as to increase an intake area of the air streams.

28. The heat-dissipating system according to claim 27, wherein a radially outward extension
15 of the inner wall of the passage is partially cut off to form a notch in order to increase a lateral intake area for the air streams.

29. The heat-dissipating system according to claim 27, wherein the inner wall of the passage at the air inlet radially outwardly extends with respect to the axis of the heat-dissipating device in a symmetrical manner and beyond a peripheral edge of the housing.

30. The heat-dissipating system according to claim 27, wherein an inner wall of the passage is
20 provided with an inclined portion.

31. The heat-dissipating system according to claim 27, wherein the inner wall of the passage

is provided with an inclined portion extending from the air inlet to the air outlet.